



## **External Training Course**

# **Process and Hydraulic Simulations**

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**From 14 Jan. To 18 Jan. 2024**  
**From 18 Feb. To 22 Feb. 2024**  
**From 28 Apr. To 02 May 2024**  
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**Cairo Marriott Hotel & Omar Khayyam Casino, Egypt**

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**External Training Course:**

## **Process and Hydraulic Simulations**

<b>From 28 Jan. To 01 Feb. 2024</b>	<b>Cairo</b>	<b>Fees: 4250 \$</b>
<b>From 25 Feb. To 29 Feb. 2024</b>	<b>Cairo</b>	<b>Fees: 4250 \$</b>
<b>From 28 Apr. To 02 May 2024</b>	<b>Cairo</b>	<b>Fees: 4250 \$</b>

**Course Overview:**

This course is designed for professionals and engineers involved in process industries such as chemical, oil and gas, and manufacturing. Participants will gain a comprehensive understanding of process and hydraulic simulations using industry-standard software. The course covers theoretical concepts, hands-on simulations, and real-world applications to enhance participants' skills in optimizing and troubleshooting industrial processes.

**Course Details & Agenda:**

**Introduction to Process Simulation:**

- Overview of process simulation and its significance in industrial design.
- Understanding the role of simulation in optimizing and improving processes.
- Introduction to commonly used simulation software.

**Principles of Hydraulic Simulation:**

- Fundamentals of fluid dynamics and hydraulic systems.
- Hydraulic modeling techniques and methodologies.
- Applications of hydraulic simulation in various industries.

**Simulation Software Familiarization:**

- In-depth exploration of leading process simulation software.

- Hands-on exercises to navigate and utilize simulation tools.
- Interpretation of simulation results.

**Process Optimization through Simulation:**

- Utilizing simulations for process optimization and efficiency improvement.
- Designing experiments within the simulation environment.
- Analyzing and interpreting results to enhance operational performance.

**Hydraulic System Modeling:**

- Advanced hydraulic system modeling techniques.
- Simulation of fluid flow, pressure, and heat transfer.
- Troubleshooting and optimizing hydraulic systems.

**Real-World Applications and Case Studies:**

- Application of simulation in solving real-world engineering challenges.
- Case studies demonstrating successful process and hydraulic simulations.
- Discussion of simulation outcomes in relation to actual plant performance.

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